
Introduction

The QMT21 High Speed Data Module (HSDM) is a stand-alone desktop data module that provides an RS-232C/V.35 interface between compatible asynchronous or synchronous data terminal equipment (DTE) and the switching network. The HSDM provides connectivity to the DTE for intra-switch communications, as well as for wide area communications over Digital Trunk Interface (DTI) or Primary Rate Interface (PRI) links to other Northern Telecom switches. The HSDM does not interface directly to Data Communication Equipment (DCE) such as modems. The QMT8 (ADM) or QMT12 (SADM) are used for that purpose.

The HSDM functions are based on the QMT11 Asynchronous/Synchronous Interface Module (ASIM). The HSDM provides a V.35 interface and allows synchronous data transmission at up to 64,000 bits per second. The HSDM V.35 interface conforms electrically to the CCITT V.35 standard and mechanically to ISO-2110. When HSDM is used as a V.35 interface unit, an adapter cable is required to convert the ISO-2110 (DB-25) into an ISO-2593 (34-pin rectangular connector).

The HSDM has the same profile as the ASIM but is packaged in a Meridian gray plastic housing. It weighs approximately 3 lb.

An external power supply is provided for each HSDM. The power supplies are assembled with the units and it is not recommended to order them separately.

When the HSDM is used as an RS-232 interface unit it can replace an ASIM. The HSDM meets the data terminal equipment/data communication equipment (DTE/DCE) interface requirements of the Electronics Industries Association (EIA) RS-232C standard. The electrical characteristics of the interface to the Data Line Card (DLC) or to a 4-Port Data Line Card (4PDLC) are the same as for the ASIM.

Features

A light emitting diode (LED), next to the legend V.35 on the front face plate, is lit continuously if the HSDM is configured internally for V.35 interface.

The HSDM can originate outgoing data calls by either keyboard dialing or keypad dialing. Keyboard (KBD) or keypad dialing may be used in the asynchronous mode. Only keypad dialing is permitted in the synchronous mode.

A standard 500/2500, SL-1, or digital telephone may be plugged into the phone jack of the HSDM. This telephone then operates through the HSDM line cord to a standard 500/2500 SL-1 line card or Integrated Services Digital Line Card (ISDLIC) in the Meridian 1.

The following features are supported by the HSDM:

- RS-232C/V.35 interface
- Up to 64 kbps in synchronous mode
- Hot Line
- Auto/Speed Call
- Ring Again (RGA)
- Remote Loopback
- Echo (automatically with KBD)
- Originate/Answer Data Calls
- Outbound Modem Pool Call
- Forced Data Terminal Ready (DTR)
- Virtual Leased Line (VLL)
- Self diagnostics
- Automatic Set Relocation
- Public Switched Data Service (PSDS)
- Echo Cancellor Disabler Tone

Related documents

For complete descriptions of the Meridian data features, refer to these documents.

- *QPC723 RS-232 Interface Line Card description, installation, and operation* (553-2731-106)
- *QPC918 High Speed Data Card description, installation, and operation* (553-2731-108)
- *Meridian data features traffic engineering and configuration* (553-2731-151)
- *Enhanced Asynchronous Interface Line Unit description and formats* (553-2731-203)
- *Meridian data features operation and tests* (553-2731-300)
- *NT7D16 Data Access Card description and operation* (553-3001-191)
- *X11 input/output guide* (553-3001-400)

Note: For the purposes of this document, Meridian 1 refers to Meridian SL-1 ST, NT, RT, and XT machines as well as Meridian 1 system options 21, 51, 61, and 71.